

COMPUTERS, ENVIRONMENT AND URBAN SYSTEMS

**LIST OF CONTENTS
AND
AUTHOR INDEX
VOLUME 27, 2003**



COMPUTERS, ENVIRONMENT AND URBAN SYSTEMS

VOLUME 27, LIST OF CONTENTS

Volume 27, Number 1

January 2003

CONTENTS

O. McNoigle	1	An account of the origins of conceptual models of geographic space
P. Longley	5	Referees to <i>Computers, Environment and Urban Systems 2001/2002</i>
W. Al-Sabhan M. Mulligan G.A. Blackburn	9	A real-time hydrological model for flood prediction using GIS and the WWW
Y. Sadahiro	33	Cluster detection in uncertain point distributions: a comparison of four methods
D.W.S. Wong	53	Implementing spatial segregation measures in GIS
M.J.O. Pocock P.C.L. White C.J. McClean J.B. Searle	71	The use of accessibility in defining sub-groups of small mammals from point sampled data
H. de Kluijver J. Stoter	85	Noise mapping and GIS: optimising quality and efficiency of noise effect studies

Volume 27, Number 2

March 2003

CONTENTS

P.A. Longley	103	Towards better understanding of digital differentiation
T.A. Wikle G.A. Finchum	107	The emerging GIS degree landscape
A. Zerger D.I. Smith	123	Impediments to using GIS for real-time disaster decision support
S.B. Kraines D.R. Wallace	143	Urban sustainability technology evaluation in a distributed object-based modeling environment
M.E. Haklay	163	Public access to environmental information: past, present and future

M. Noth	181	An extensible, modular architecture for simulating urban development, transportation, and environmental impacts
A. Borning		
P. Waddell		
A.T. Murray	205	Site placement uncertainty in location analysis

Volume 27, Number 3

May 2003

CONTENTS**Part Theme Issue
Emerging Technologies for Geo-Based Applications**

M. Norrie	223	Guest editorial
C. Claramunt	225	Modelling concepts for the representation of evolution constraints
C. Parent		
D. Pfoser	243	Generating semantics-based trajectories of moving objects
Y. Theodoridis		
D. Malerba	265	Empowering a GIS with inductive learning capabilities: the case of INGENS
F. Esposito		
A. Lanza		
F.A. Lisi		
A. Appice		
L. Simpson	283	Public access to conversion of data between geographies, with multiple look up tables derived from a postal directory
A. Yu		
R.J. Bennett	309	The spatial market of business advice and consultancy to SMEs
C. Smith		

Volume 27, Number 4

July 2003

CONTENTS**Theme Issue
3D Cadastres**

C. Lemmen	337	3D Cadastres
P. van Oosterom		
V. Coors	345	3D-GIS in networking environments
M. Benhamu	359	Toward a spatial 3D cadastre in Israel
Y. Doytsher		
H. Onsrud	375	Making a Cadastre law for 3D properties in Norway

P. van der Molen	383	Institutional aspects of 3D cadastres
J. Stoter	395	Towards a 3D cadastre: where do cadastral needs and technical possibilities meet?
M. Salzmann		
R. Billen	411	3D spatial relationships model: a useful concept for 3D cadastre?
S. Zlatanova		
R.O.C. Tse	427	A proposed connectivity-based model for a 3-D cadastre
C. Gold		

Volume 27, Number 5

September 2003

CONTENTS

H.J. Miller	447	What about people in geographic information science?
J.L. Mennis	455	Derivation and implementation of a semantic GIS data model informed by principles of cognition
C.M. de Almeida	481	Stochastic cellular automata modeling of urban land use dynamics: empirical development and estimation
M. Batty		
A.M.V. Monteiro		
G. Câmara		
B.S. Soares-Filho		
G.C. Cerqueira		
C.L. Pennachin		
O. Uran	511	Why are spatial decision support systems not used? Some experiences from the Netherlands
R. Janssen		
N.M. Kelly	527	WebGIS for Monitoring "Sudden Oak Death" in coastal California
K. Tuxen		
	549	Errata

Volume 27, Number 6

November 2003

CONTENTS

**Part Special Issue
Urban Data Management Society**

R. Laurini	551	Editorial
J.E. Stoter	553	Property in 3D—registration of multiple use of space: current practice in Holland and the need for a 3D cadastre
H.D. Ploeger		

M.J. Kevany	571	GIS in the World Trade Center attack—trial by fire
N. Odendaal	585	Information and communication technology and local governance: understanding the difference between cities in developed and emerging economies
E. Wilmersdorf	609	Geocoded information incorporated into urban online services—the approach of the City of Vienna
Regular Papers		
B. Huang	623	Web-based dynamic and interactive environmental visualization
Y. Liu S.R. Phinn	637	Modelling urban development with cellular automata incorporating fuzzy-set approaches